



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/780,203	02/17/2004	Ilkka Tiainen	042933/272443	9908

826 7590 04/05/2006

ALSTON & BIRD LLP
BANK OF AMERICA PLAZA
101 SOUTH TRYON STREET, SUITE 4000
CHARLOTTE, NC 28280-4000

EXAMINER

HANNIF ALI, LARRY

ART UNIT PAPER NUMBER

2617

DATE MAILED: 04/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/780,203

Applicant(s)

TIAINEN ET AL.

Examiner

Larry Hannif-Ali

Art Unit

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 February 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-41 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-41 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 17 February 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. **Claims 1, 3-4, 14, 17, 25-29, 33, 38-39, and 41** are rejected under 35 U.S.C. 102(e) as being unpatentable over Liebenow (U.S. Pub. No. 2004/0162117 A1).

Regarding **Claim 1**, Liebenow teaches a device for providing a mobile terminal simultaneous battery charging and data transfer, the device comprising: a processing unit [paragraph 0018, lines 1-5 & Fig. 1, Items 130, (power line networking interface must inherently incorporate a processing unit to receive and send networking data)]; a power line communication modem in communication with the processing unit and a shared power line network [paragraph 0018, lines 1-5 & Fig. 1, Items 150 & paragraph 0017, lines 5-6 & Fig. 1, Item 105 (AC input connector to power line)]; a first data transfer interface in communication with the processing unit for transferring data to and from the mobile terminal [paragraph 0018, lines 1-5 & Fig. 1, Item 152 (power line networking interface receives and sends data to the cellular phone using isolation and coupling interface)]; a power converter in communication with the shared power line network [paragraph 0017, lines 5-12 & Fig. 1, Item 140]; and a charging unit and interface in communication with the power converter [paragraph 0017, lines 1-4 &

paragraph 0018, lines 1-16 (inherently, the charger will incorporate a charging unit) & Fig. 1, Item 170 (isolation and coupling receive and send data using the connector as an interface and the mobile phone is also charged through the connector interface)], wherein the charging interface and the data transfer interface provide for communication with a mobile terminal to provide the mobile terminal with simultaneous battery charging and data transfer [paragraph 0017, lines 1-4 & paragraph 0018, lines 1-16 & Fig. 1, Items 170 (isolation and coupling receive and send data using the connector as an interface and the mobile phone is also charged through the connector interface)].

Regarding **Claim 3**. Liebenow teaches wherein the first data transfer interface further comprises a data Input/Output (I/O) interface [paragraph 0018, lines 1-5 & Fig. 1, Item 152 (isolation and coupling interface receives and sends data)].

Regarding **Claim 4**. Liebenow teaches wherein first data transfer interface further comprises a Universal Serial Bus interface [paragraph 0018, lines 9-10 & paragraph 0022, lines 1-10].

Regarding **Claim 14**. Liebenow teaches further comprising a battery charging routine executed by the processing unit that provides conditional battery charging based on current battery level [paragraph 0017, lines 1-13 (device is a phone charger)].

Regarding **Claim 17**. Liebenow teaches a system for providing a mobile terminal simultaneous battery charging and data transfer, the system comprising: a mobile terminal [Fig. 1, Item 180 (cellular phone)]; a first datacharger device that provides for simultaneous battery charging and data transfer to the mobile terminal, which includes a processing unit [paragraph 0017, lines 1-5 & paragraph 0018, lines 1-5 & Fig. 1, Items 130, (power line networking interface must inherently incorporate a processing unit to receive and send networking data)], a power line communication modem in communication with the processing unit [paragraph 0018, lines 1-5 & Fig. 1, Items 150]

a first data transfer interface in communication with the processing unit [paragraph 0018, lines 1-5 & Fig. 1, Item 152 (power line networking interface receives and sends data to the cellular phone using isolation and coupling interface)] and a charging unit in communication with the power converter [paragraph 0017, lines 1-4 & paragraph 0018, lines 1-16 (inherently, the charger will incorporate a charging unit)] & Fig. 1, Item 140]; a shared power line network in communication with the first datacharger via the power line communication modem and the power converter [paragraph 0017, lines 7 & Fig. 1, Item 105 (AC input connector connects to the power lines) & Fig. 1, Items 140, 150]; and a first digital device in communication with the shared power line network that transfers data to the mobile terminal through the shared power line and the first data transfer interface of the first datacharger device [paragraph 0023 & Fig. 3].

Regarding **Claim 25**. Liebenow teaches further comprising a data transfer device that is in communication with the digital device and includes a processing unit and a power line communication modem in communication with the processing unit, a first data transfer interface in communication with the processing unit and the shared power line network [paragraph 0023, lines 1-13 and 16-24 & Fig. 3, Item 340 & paragraph 0018, lines 1-5 & Fig. 1, Items 130, (power line networking interface must inherently incorporate a processing unit to receive and send networking data) & paragraph 0018, lines 1-5 & Fig. 1, Items 150, 105 (AC input connector to power line)].

Regarding **Claim 26**. Liebenow teaches wherein the data transfer device is further defined as a second datacharger device that further comprises a power converter in communication with the shared power line network and a charging unit in communication with the power converter [paragraph 0023, lines 1-13 and 16-24 & Fig. 3, Item 340 & paragraph 0017, lines 5-12 & Fig. 1, Item 140 & paragraph 0017, lines 1-4 & paragraph 0018, lines 1-16 (inherently, the phone charger will incorporate a charging unit)].

Regarding **Claim 27**. Liebenow teaches wherein the data transfer device further comprises a Universal Serial Bus (USB) connection for providing USB connection to the digital device [paragraph 0023, lines 1-13 and 16-20 & paragraph 0022, lines 7-10].

Regarding **Claim 28**. Liebenow teaches further comprising a Universal Serial Bus (USB) adapter device in communication with the shared power line network and the digital device [paragraph 0018, lines 9-10 & paragraph 0021, lines 10-11 & paragraph 0022, lines 1-10].

Regarding **Claim 29**. Liebenow teaches a method for power line communication of data between a digital device and a mobile terminal while simultaneously charging a battery of the mobile terminal, the method comprising the steps of: connecting a battery charging and data communication device to a power line [paragraph 0017, lines 1-7 & Fig. 1, Item 105 (AC input connector is connected to power lines)]; connecting the mobile terminal to a charging interface and a data communication interface of the battery charging and data communication device [paragraph 0017, lines 1-4 & paragraph 0018, lines 1-16 & Fig. 1, Items 170 (isolation and coupling receive and send data using the connector as an interface and the mobile phone is also charged through the connector interface)]; providing power to the battery of the mobile terminal; and simultaneously, communicating data between the mobile terminal and the digital device, whereby the data is communicated via the power line and the digital device is in communication with the power line [paragraph 0017, lines 1-4 & paragraph 0018, lines 1-16 & Fig. 1, Items 170 (isolation and coupling receive and send data using the connector as an interface and the mobile phone is also charged through the connector interface) & paragraph 0023 & Fig. 3].

Regarding **Claim 33**. Liebenow teaches further comprising the step of synchronizing the data communicated between the mobile terminal and the digital device [paragraph 0023, lines 9-320 & paragraph 0018, lines 1-5].

Regarding **Claim 38**. Liebenow teaches wherein the step of communicating data between the mobile terminal and a digital device further comprises communicating, from the mobile terminal to a digital device, multimedia files created at the mobile terminal [paragraph 0023, lines 20-29].

Regarding **Claim 39**. Liebenow teaches wherein the step of communicating data between the mobile terminal and a digital device further comprises communicating, from the digital device to the mobile terminal, electronic mail that is received the digital device [paragraph 0023, lines 20-29 (inherently, email received at the digital device may be communicated to the mobile terminal)].

Regarding **Claim 41**. Liebenow teaches wherein the step of communicating data between the mobile terminal and a digital device further comprises communicating, from the digital device to the mobile terminal, calendar-type information related to a digital planner application [paragraph 0023, lines 20-29].

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 2, 5-13, 15, 18-24, 30, 34-37** are rejected under 35 U.S.C. 103(a) as being unpatentable over Liebenow (U.S. Pub. No. 2004/0162117 A1) in view of Tomlinson Jr. (U.S. Pub. No. 2003/0100288 A1).

Regarding **Claim 2**. Liebenow teaches everything as applied above in Claim 1 including the processing unit. However, Liebenow fails to specifically teach further comprising a memory unit in communication with the processing unit. The examiner considers that the claimed limitation was well known in the art as taught by Tomlinson Jr.

In an analogous art, Tomlinson Jr. discloses a power line communication radio frequency bridge further comprising a memory unit in communication with the processing unit [paragraph 0010, lines 3-6 & Fig. 2, Item 114].

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to modify the phone charger of Liebenow to incorporate the memory unit as taught by Tomlinson Jr. in order to have a buffer or backup memory for the data stored on the mobile device.

Regarding **Claim 5**. Liebenow teaches everything as applied above in Claim 1. However, Liebenow fails to specifically teach wherein the first data transfer interface further comprises a wireless data transfer interface. The examiner considers that the claimed limitation was well known in the art as taught by Tomlinson Jr.

In an analogous art, Tomlinson Jr. discloses a power line communication radio frequency bridge wherein the first data transfer interface further comprises a wireless data transfer interface [paragraph 0010, lines 11-17 & paragraph 0013, lines 1-17].

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to modify the phone charger of Liebenow to incorporate the wireless data transfer interface as taught by Tomlinson Jr. in order to have wired as well as wireless data transfer interfaces.

Regarding **Claim 6**. The combination of Liebenow and Tomlinson Jr. further teaches further comprising a short-range communication transceiver [Tomlinson Jr.: paragraph 0013, lines 1-17 (Bluetooth)].

Regarding **Claim 7**. The combination of Liebenow and Tomlinson Jr. further teaches wherein the short-range communication transceiver is chosen from the group consisting of an RF transceiver, an Infrared (IR) transceiver, a Wireless Local Area Network (WLAN) transceiver, and an Ultra Wide Band (UWB) transceiver [Tomlinson Jr.: paragraph 0013, lines 1-17].

Regarding **Claim 8**. Liebenow teaches everything as applied above in Claim 1. However, Liebenow fails to specifically teach further comprising a second data transfer interface in communication with the processing unit that transfers data to and from a data source device. The examiner considers that the claimed limitation was well known in the art as taught by Tomlinson Jr.

In an analogous art, Tomlinson Jr. discloses a power line communication radio frequency bridge further comprising a second data transfer interface in communication with the processing unit that transfers data to and from a data source device [paragraph 0009 & Fig. 1, Items 130].

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to modify the phone charger of Liebenow to include the wireless interface as a second data transfer interface as taught by Tomlinson Jr. in order to have both wired and wireless data communication.

Regarding **Claim 9**. Liebenow teaches everything as applied above in Claim 1. However, Liebenow fails to specifically teach further comprising a network association routine executed by the processing unit that associates one or more mobile terminals with the device. The examiner considers that the claimed limitation was well known in the art as taught by Tomlinson Jr.

In an analogous art, Tomlinson Jr. discloses a power line communication radio frequency bridge further comprising a network association routine executed by the processing unit that associates one or more mobile terminals with the device [paragraph 0022, lines 7-12 (controller is provided with a list of known RF communication addresses)].

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to modify the phone charger of Liebenow to incorporate the list of known RF addresses as taught by Tomlinson Jr. in order not to misappropriate controller resources sending messages to non-existing addresses.

Regarding **Claim 10**. The combination of Liebenow and Tomlinson Jr. further teaches wherein the network association routine further associates one or more digital devices with the device to create sub-networks [Liebenow: paragraph 0023 & Fig. 3, Item 310 (personal computer)].

Regarding **Claim 11**. The combination of Liebenow and Tomlinson Jr. further teaches further comprising an association database that stores an identity of one or more mobile terminals associated with the device [Tomlinson Jr.: paragraph 0022, lines 7-12 (controller is provided with a list of known RF communication addresses and inherently the associated identities of the mobile terminals)].

Regarding **Claim 12**. The combination of Liebenow and Tomlinson Jr. further teaches further comprising an association database that stores an identity of one or more digital devices associated with the device [Liebenow: paragraph 0023 & Fig. 3, Item 310 (inherently, the identity of the personal computer will be known by the phone charger)].

Regarding **Claim 13**. Liebenow teaches everything as applied above in Claim 1. However, Liebenow fails to specifically teach further comprising a security and authentication routine executed by the processing unit that provides authentication for

one or more mobile units. The examiner considers that the claimed limitation was well known in the art as taught by Tomlinson Jr.

In an analogous art, Tomlinson Jr. discloses a power line communication radio frequency bridge further comprising a security and authentication routine executed by the processing unit that provides authentication for one or more mobile units [Tomlinson Jr.: paragraph 0021, lines 15-27].

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to modify the phone charger of Liebenow to incorporate the encryption bit as taught by Liebenow in order for the device to receive secure messages.

Regarding **Claim 15**. Liebenow teaches everything as applied above in Claim 1. However, Liebenow fails to specifically teach further comprising a file deletion routine executed by the processing unit that provides for idle files to be automatically deleted from an associated mobile terminal based on period of idleness. The examiner considers that the claimed limitation was well known in the art as taught by Tomlinson Jr.

In an analogous art, Tomlinson Jr. discloses a power line communication radio frequency bridge further comprising a file deletion routine executed by the processing unit that provides for idle files to be automatically deleted from an associated mobile terminal based on period of idleness [paragraph 0022, lines 7-12 (if the controller cannot find an RF link address in memory, it will discard the message to be sent to the address)].

Regarding **Claim 18**. Liebenow teaches everything as applied above in Claim 17. However, Liebenow fails to specifically teach further comprising a second digital device in communication with the first datacharger through a second data transfer interface included in the first datacharger device. The examiner considers that the claimed limitation was well known in the art as taught by Tomlinson Jr.

In an analogous art, Tomlinson Jr. discloses a power line communication radio frequency bridge further comprising a second digital device in communication with the first datacharger through a second data transfer interface included in the first datacharger device [paragraph 0009 & Fig. 1, Item 130 (one or more RF units)].

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to modify the phone charger of Liebenow to incorporate a wireless data transfer interface as taught by Tomlinson Jr. in order to have multiple interfaces available for wired and wireless data transmission.

Regarding **Claim 19**. The combination of Liebenow and Tomlinson Jr. further teaches wherein the first datacharger device includes a second data transfer interface further defined as a wireless second data transfer interface [Tomlinson Jr.: paragraph 0010, lines 11-17].

Regarding **Claim 20**. The combination of Liebenow and Tomlinson Jr. further teaches wherein the first datacharger device further comprises a short-range communication transceiver [Tomlinson Jr.: paragraph 0013, lines 1-17 (Bluetooth)].

Regarding **Claim 21**. The combination of Liebenow and Tomlinson Jr. further teaches wherein the short-range communication transceiver is chosen from the group consisting of an RF transceiver, an Infrared (1R) transceiver, a Wireless Local Area Network (WLAN) transceiver, and an Ultra Wide Band (UWB) transceiver [Tomlinson Jr.: paragraph 0013, lines 1-17].

Regarding **Claim 22**. Liebenow teaches everything as applied above in Claim 17. However, Liebenow fails to specifically teach further comprising a network association routine executed by the processing unit that associates one or more mobile terminals with the device. The examiner considers that the claimed limitation was well known in the art as taught by Tomlinson Jr.

In an analogous art, Tomlinson Jr. discloses a power line communication radio frequency bridge further comprising a network association routine executed by the processing unit that associates one or more mobile terminals with the device [paragraph 0022, lines 7-12 (controller is provided with a list of known RF communication addresses)].

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to modify the phone charger of Liebenow to incorporate the list of known RF addresses as taught by Tomlinson Jr. in order not to waste controller resources sending messages to non-existing addresses.

Regarding **Claim 23**. The combination of Liebenow and Tomlinson Jr. further teaches wherein the network association routine further associates one or more digital devices with the device to create sub-networks [Liebenow: paragraph 0023 & Fig. 3, Item 310 (personal computer)].

Regarding **Claim 24**. Liebenow teaches everything as applied above in Claim 17. However, Liebenow fails to specifically teach further comprising a security and authentication routine executed by the processing unit that provides authentication for one or more mobile units. The examiner considers that the claimed limitation was well known in the art as taught by Tomlinson Jr.

In an analogous art, Tomlinson Jr. discloses a power line communication radio frequency bridge further comprising a security and authentication routine executed by the processing unit that provides authentication for one or more mobile units [Tomlinson Jr.: paragraph 0021, lines 15-27].

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to modify the phone charger of Liebenow to incorporate the encryption bit as taught by Liebenow in order for the device to receive secure messages.

Regarding **Claim 30**. Liebenow teaches everything as applied above in Claim 29

including the digital device. However, Liebenow fails to specifically teach further comprising the step of authorizing the mobile terminal for data communication prior to communicating data between the mobile terminal and the digital device. The examiner considers that the claimed limitation was well known in the art by Tomlinson Jr.

In an analogous art, Tomlinson Jr. discloses a power line communication radio frequency bridge further comprising the step of authorizing the mobile terminal for data communication prior to communicating data between the mobile terminal and the digital device [paragraph 0013 (communication protocol controls message routing, sequencing)].

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to modify the device of Liebenow to incorporate the communication protocol as taught by Tomlinson Jr. for the purpose of managing communication with multiple devices.

Regarding **Claim 34**. The combination of Liebenow and Tomlinson Jr. further teaches wherein the step of synchronizing the data communicated from the mobile terminal further comprises creating sub-network association for the mobile terminal and the battery charging and data communication device [Liebenow: paragraph 0023, lines 1-4 and 9-16 & paragraph 0022, lines 1-8 (data may be transferred in serial or parallel for a sub-network)].

Regarding **Claim 35**. The combination of Liebenow and Tomlinson Jr. further teaches wherein the step of synchronizing the data communicated from the mobile terminal further comprises selecting, from a stored list of sub-networks, sub-network association for the mobile terminal and the battery charging and data communication device [Liebenow: paragraph 0023, lines 1-4 and 9-16 & paragraph 0022, lines 1-8 (data may be transferred in serial or parallel for a sub-network) & Tomlinson Jr.: paragraph 0022, lines 7-12].

Regarding **Claim 36**. The combination of Liebenow and Tomlinson Jr. further teaches wherein the step of communicating data between the mobile terminal and a digital device further comprises the step of communicating data and a mobile terminal-provided destination address to the battery charging and data communication device [Tomlinson Jr.: paragraph 0022, lines 7-12 (phone charger will incorporate a list of all device addresses)].

Regarding **Claim 37**. The combination of Liebenow and Tomlinson Jr. further teaches further comprising the step of performing network address translation on the mobile terminal-provided destination address prior to communicating the data to the digital device [Tomlinson Jr.: paragraph 0022, lines 7-12 (inherently, addresses translation must be performed prior to communicating data to any device)].

5. **Claim 40** is rejected under 35 U.S.C. 103(a) as being unpatentable over Liebenow (U.S. Pub. No. 2004/0162117 A1) in view of Ackley (U.S. Pub. No. 2004/0259537 A1).

Regarding **Claim 40**. Liebenow teaches everything as applied above in Claim 29 including communication data between the mobile terminal and digital device. However, Liebenow fails to specifically teach wherein the step of communicating data between the mobile terminal and a digital device further comprises communicating, from the digital device to the mobile terminal, updates to software applications implemented on the mobile terminal. The examiner considers that the claimed limitation was well known in the art as taught by Ackley.

In an analogous art, Ackley discloses a cell phone multimedia controller wherein the step of communicating data between the mobile terminal and a digital device further comprises communicating, from the digital device to the mobile terminal, updates to software applications implemented on the mobile terminal [paragraph 0026].

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to implement the method of controlling and interacting with

multimedia devices using a mobile device in order to easily update programs used by the mobile device.

6. **Claim 16** is rejected under 35 U.S.C. 103(a) as being unpatentable over Liebenow (U.S. Pub. No. 2004/0162117 A1) in view of Tomlinson Jr. (U.S. Pub. No. 2003/0100288 A1) and further in view of Pederson (U.S. Pub. No. 2004/0198403 A1).

Regarding **Claim 16**. The combination of Liebenow and Tomlinson Jr. teaches everything as applied above in Claim 2, including the memory. However, the combination fails to specifically teach further comprising a game application stored in the memory unit that can be uploaded by the mobile terminal. The examiner considers that the claimed limitation was well known in the art as taught by Pederson.

In an analogous art, Pederson discloses gaming concepts for wireless terminals further comprising a game application stored in the memory unit that can be uploaded by the mobile terminal [paragraph 0008].

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to include in the memory of the phone charger as taught by Liebenow and Tomlinson Jr. the game application as stored in the memory of the wireless device as taught by Pederson as a buffer or back-up file for the mobile devices.

7. **Claims 31-32** are rejected under 35 U.S.C. 103(a) as being unpatentable over Liebenow (U.S. Pub. No. 2004/0162117 A1) in view of Tomlinson Jr. (U.S. Pub. No. 2003/0100288 A1) and further in view of Smeets (U.S. 2002/0132605 A1).

Regarding **Claim 31**. The combination of Liebenow and Tomlinson Jr. teaches everything as applied above in Claim 30. However, the combination fails to specifically teach wherein the step of authorizing the mobile terminal for data communication prior to providing data to the mobile terminal further comprises querying the mobile terminal for a pairing key to determine if the mobile device is authorized for data communication.

The examiner considers that the claimed limitation was well known in the art as taught by Smeets.

In an analogous art, Smeets discloses a method and system for authentication of units in a communication network wherein the step of authorizing the mobile terminal for data communication prior to providing data to the mobile terminal further comprises querying the mobile terminal for a pairing key to determine if the mobile device is authorized for data communication [paragraph 0119 & paragraph 0126 (either device may query the other for the communication key)].

Therefore, it would have been obvious to one of ordinary skill in the art, at the time the invention was made to include the link key as taught by Smeets in the combination phone charger as taught by Liebenow and Tomlinson Jr. in order to have secure communication between devices.

Regarding **Claim 32**. The combination of Liebenow, Tomlinson Jr. and Smeets further teaches further comprising the step of communicating, wirelessly, the pairing key from the mobile terminal to the battery charging and data communication device to provide for data communication authorization [Smeets: paragraph 0119 (Bluetooth link)].

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Larry Hannif-Ali whose telephone number is 571-272-5598. The examiner can normally be reached on Mon-Fri 9:00AM - 6:00PM.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on 571-272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2617

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Larry Hannif-Ali

March 31, 2006



LESTER G. KINCAID
SUPERVISORY PRIMARY EXAMINER